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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/936,771	(01/17/2002	Markus Doetsch	1406/18	9374	
25297	7590	10/15/2004		EXAM	EXAMINER	
JENKINS &		N, PA	GHEBRETINSAL	E, TEMESGHEN		
SUITE 1400	CBLVD			ART UNIT	PAPER NUMBER	
DURHAM, NC 27707				2637		

DATE MAILED: 10/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/936,771	Doetsch et al.				
	Office Action Summary	Examiner	Art Unit				
		Temesghen Ghebretinsae	2637				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on		•				
2a) <u></u> ☐	This action is FINAL . 2b) This	action is non-final.					
3)🖂	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	 4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-13 is/are allowed. 						
5)⊠							
6)□	6) Claim(s) is/are rejected.						
7)	7) Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9)⊠	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>14 September 2001</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority ι	ınder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of:)-(d) or (f).				
 Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No 							
	3. ■ Copies of the certified copies of the prior	• •					
	application from the International Bureau		od in this readonal Stage				
* 8	See the attached detailed Office action for a list		ed.				
)						
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 12/13/01.	6) Other:	atent Application (PTO-152)				

Application/Control Number: 09/936,771 Page 2

Art Unit: 2637

DETAILED ACTION

1. It would be of great assistance to the Office if all incoming papers pertaining to a filed application carried the following items:

- 1. Application number (checked for accuracy, including series code and serial no.).
- 2. Group art unit number (copied from most recent Office communication).
- 3. Filing date.
- 4. Name of the examiner who prepared the most recent Office action.
- 5. Title of invention.
- 6. Confirmation number (See MPEP § 503).

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 2/2/02 has been considered by the examiner.

Drawings

4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "sampling circuit" of claim 7 and "a buffer store" for buffer storing the sampled of claim 10 must be shown or the feature(s) canceled from the claim(s). (See fig.5) No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate

Application/Control Number: 09/936,771 Page 3

Art Unit: 2637

prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

5. Claims 1 and 3 are objected to because of the following informalities: in claim 1, "the chip clock rate" should be ---a chip clock rate---; claim 1, line 6, "the signal components' should be ---signal components--- and in claim 3, "the memory device" should be ---a memory device--- or should depend from claim 2. Appropriate correction is required.

Specification

6. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Allowable Subject Matter

Application/Control Number: 09/936,771 Page 4

Art Unit: 2637

7. This application is in condition for allowance except for the following formal matters:

See paragraph 4-6 above.

Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

- 8. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record fail to anticipate or render obvious the claimed CDMA receiver comprising a weighting coefficient calculation device for calculating weighting coefficients for the various signal components of the CDMA signal as a function of the estimated channel coefficients and stored spreading and scrambling codes in combinations with a receiving device; a rake receiving circuit; a channel estimation circuit for estimating channel coefficients of a transmission channel by means of predetermined reference data sequence; a weighting circuit for weighting the signal components with the calculated weighting coefficients and a combiner for combining the weighted signal components to form an estimated received data signal in the manner and complexity explicitly claimed in claim 1.
- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Abeta et al (6,757,272) is cited to show a CDMA receiver comprising channel estimation unit.

Application/Control Number: 09/936,771

Art Unit: 2637

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Temesghen Ghebretinsae whose telephone number is

571-272-3017. The examiner can normally be reached on Monday-Friday from 8 to 6.

The examiner can also be reached on alternate.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel, can be reached on 571-272-2688. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Temesghen Ghebretinsae

Primary Examiner

Art Unit 2637

T.G. 10/12/04.

TEMESCHER GHEBRETINSAE PRIMARY EXAMINER

Page 5